MBD Search Engine

2.1

User's Manual

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MBD Search Engine

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Table of Contents

Part I Introduction 6

1 What is MBS SE? 6
2 Main Functions 6
3 Main features 6
4 What's new 7
5 License types 7
Personal 8
Corporative 8
6 Hardware Requirements 8
7 System Requirements 9

Part II Installing MBD SE 11

1 Installing from archive 11
2 Installing from distributive 11
3 Installing on computer with multiple users 11
4 Uninstalling 11

Part III Quick Start 14

1 Launching MBD SE 14
2 Creating first database 14
3 Searching information 14
4 Using found information 15

Part IV Interface 17

1 Toolbar 17
2 Search Bar 18
3 Found Results Bar 18
4 Navigation window 18
5 Page viewer window 19

Part V Working with databases 21

1 Creating database 21
2 Opening database 23
3 Updating database 24
4 Deleting database 24
5 Database info 25

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Part VI Database search 27

1 Search request ... 27
2 Displaying search results ... 27
Found document properties ... 28
3 Opening document in the native viewer ... 28
4 Saving search request ... 28
5 Extended search request ... 29
6 Extended database search ... 30
7 Search by fields function ... 30

Part VII Service 33

1 Merging databases ... 33
2 Export database ... 34
3 Import database ... 35
4 Saving search results ... 36

Part VIII Database protection 38

1 Creating new protected database ... 38
Setting protection to the created database ... 38
Remove database protection ... 39
2 Distribution of protected databases ... 39
3 Saving source documents inside database ... 40
4 Source documents protection ... 42

Part IX Settings 45

1 Common Settings ... 45
2 Miscellaneous ... 46

Part X Program activation 48

Part XI Appendix 50

1 Glossary ... 50
2 Common errors during MBD SE using ... 50
3 Support ... 50

Index 51

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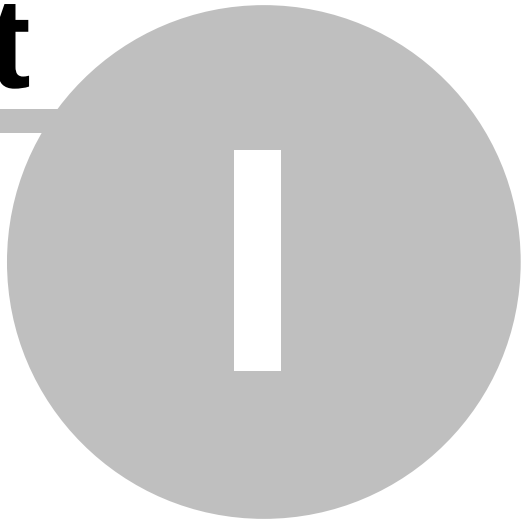
Part



1 Introduction

MBD Search Engine (MBD SE) is the full text search application intended to search both in the personal document collection and in the large archive or e-library of a hundreds of thousand volumes

1.1 What is MBS SE?

MBD Search Engine Professional (MBD SE) is the full text search application intended to search both in the personal document collection and in large archive or e-library of a hundreds of thousand of volumes. MBD Search Engine uses new methods for searching in e-libraries and archives. This makes our program having unique capabilities of searching both in the student's computer and in large archive or library containing hundreds or even millions of volumes.
Main advantages of MBD SE:

- Fast search (1 sec for 100 Gb database)
- Search for separate text pages and not just entire documents as in the most search systems
- Fast text pages output, from the own internal database, without loading source document
- Fast image output, from the own internal database, without loading source document
- Especially effective when working with books and large documents
- Special copy protection functions for e-libraries

1.2 Main Functions

- Looking for documents in folders, volumes and network paths specified by user.
- Extracting text information from the document files of different formats (DOC, RTF, TXT, HTML, PDF and ZIP archives).
- Creating text database needed for fast view of results found. Text information is displayed page by page.
- Creating search index contained all words positions.
- Providing momentary search by any words combination with “AND” or “OR” logical operators.
- Quick found results view both page by page and document by document.
- Loading documents in corresponding viewers (Microsoft Word, Microsoft Internet Explorer and others)

1.3 Main features

- Creation of native compressed database
- Maximum database size – 2 Tb
- Page-by-page database organization. Page size - 3Kb
- Average search time in 50 Gb – 1-2 sec.
- Number of databases – infinite.
- Search in multiple databases
- Source document formats: txt, rtf, doc, htm, pdf, zip, Outlook mail.
- Indexing speed - about 2 Gb per hour.
- Maximum indexed document size – limited by RAM.
- English – Russian morphological vocabulary containing over 1.5 million of words.
- Indexing documents on the network.
- Opening documents in native viewers and editors.

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- Searching using logical operators «AND» and «OR».
- Saving search requests and search results.
- Building complex requests using saved requests.
- Highlighting found words in text.
- Number of words in request – over 1000.
- Searching with limited distance between words.
- Searching taking into account the order of the words in the request.
- Distance between words is easily set by special slider.
- Index takes about 40% of source text size.
- Number of documents in database – limited by database size.
- Looking through found results speed < 0.1 sec per page.
- Creation of found pages and documents tree for quick navigation.
- Copy text feature included
- Merging databases function (not allowed in free version).
- Importing/exporting databases in MBDSE format.
- Updating database by adding only new documents

1.4 What's new

What's new in 2.1

- Find by fields function was added
- Find pictures function was added
- Find in the found documents function was added
- Find with words order function was added
- Extended search request was realized
- PDF text extraction algorithm was optimized (for large PDFs greater than 1000 pages the algorithm become 100 times faster).

What's new in 2.0

- Search in multiple databases simultaneously
- Updating database without re-creation
- Merging database with pictures

1.5 License types

MBD Search Engine Professional 2.0 is offered with different types of licenses: Free, Standard and Professional. Each type of license is defined by electron Activation key and defines the configuration of program. The Activation key is supplied to the customer with the license after purchasing.

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1.5.1 Personal

Free
Each copy of MBD SE has free license for non-commercial use by default. This license is useful mainly to try the program. Program in “Free” configuration has following limitations:

- Database is limited by 360.000 text pages (or 1 Gb of pure text)
- No database merging
- No database protection
- Limited technical support

Standard
Standard license is useful for personal non-commercial use. Program in “Standard” configuration has following limitation:

- Database size is limited by 3.600.000 text pages or 10 Gb of pure text
- No database protection
- Full technical support

Professional
Professional license has no limitations and can be used for databases containing up to 1 milliard text pages or 2 Tb (2000 Gb) of pure text.

- Database merging function available
- Database protection function available
- Full technical support

1.5.2 Corporative

Corporative
MBD Search Engine Corporative - is the unlimited number of installations of MBD Search Engine Professional inside one corporation.

Publisher
MBD Search Engine for Publishers is developed for publisher of electronic issues who want to protect their databases from redistribution and illegal copying. In addition to the Professional functionality, Publisher license allows you to distribute protected databases and generate electron keys for each user.

Server
MBD Search Engine Server is developed for corporative network. It provides simultaneous work of many users with enterprise’s archive or e-library allocated on the server.

Internet
MBD Search Engine Internet is intended for working together with MBD Search Engine Server in order to provide access to your databases through the Internet (HTTP protocol).

1.6 Hardware Requirements

Program is intended for using on the contemporary computers with taking into account future trends of its development.
Program requires at least 512Mb of RAM, CPU of 2000 MHz and hard disk from 100 Gb. Index creation time and search time depend mainly from CPU and hard disk speed.

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1.7 System Requirements

MBD Search Engine uses COM+ client-server technology included in Windows 2000 and above.
MBD Search Engine runs under Windows 2000, XP, 2003, Vista

Program has been generally tested under Windows XP and Windows 2003 Server.

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Part II

2 Installing MBD SE

You can install MBD SE Desktop if you have:
- Microsoft Windows 2000, XP or later operation system,
- administrator rights,
- at least 50 Mb of free disk space
- not less then 512 Mb of RAM

To avoid errors uninstall older version of MBD SE before installing new one!

2.1 Installing from archive

If you downloaded zip-file from the Internet, perform following actions:
- Run the file manager program, such as Windows Explorer (for example, open My Computer icon)
- Find downloaded archive file and double-click on its name to run archiver (for example, WinZip).
- Select all files in archiver's window and press "Extract to" (or something like this) button.
- Select temporary directory to place extracted files (for example, "c:\temp\mbdse")
- After extraction is finished enter into selected directory and follow Installing from distributive instruction.

2.2 Installing from distributive

- Run setup.exe from MBD SE distributive folder (you can use either file manager such as Windows Explorer or Run command from Windows Start menu).
- Follow setup program instructions.

2.3 Installing on computer with multiple users

To install program with multiple users some of which has no administrative privileges do following actions:
- Run «Component Services» from Control Panel – Administrative tools,
- Select "My computer" and «COM+ Applications».
- Choose MBDFlat application and select "Properties" in its context menu. (To display context menu right click on the MBDFlat item).
- Select «Identify» tab.
- Choose «This user» and enter login and password of any user having administrative privileges. MBD server will be launched now ones per Windows startup under specified user rights.
- Restart the computer.

2.4 Uninstalling

To uninstall program:
- Run Control panel: «Start»-«Control Panel».
- Choose «Add/Remove programs»
- Select «MBD Search Engine»
- Press «Remove» button.

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- Follow uninstall program instructions.

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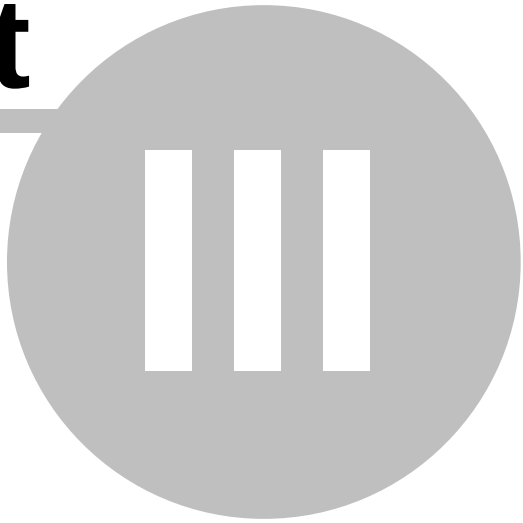
Part



3 Quick Start

3.1 Launching MBD SE

To launch MBD SE double-click on MBD Search Engine icon on the Desktop. If there is no MBD Search Engine icon on the Desktop, press Start button and select MBD Search Engine link in Programs – MBD Search Engine folder.
After that main program window will appear.

Note
When MBS SE starts MBD COM+ database server is loaded. It takes a few of seconds and 50 Mb of RAM. After closing program, MBD COM+ Server frees all memory.

Next action is to create your first database.

3.2 Creating first database

To work with MBD SE you have to create at least one MBD database. Database contains text and pictures extracted from your documents and Index. Index is used to organize fast document archive information retrieval . Database creation process is the most difficult and delicate process in MBD SE working. It takes about 1 hour for 3 Gb database.

How to create the database is described in the Creating database section.

Next action is to search the information in the database.

3.3 Searching information

After the database is created you can search need information. Just enter few words in the search bar area and press Enter or "**Search**" button.
Found pages and documents will appear on the screen.

Search request language is very simple. Enumerated through the space words are treated as been combined with AND logical operator (as in the most search systems). To combine a group of words by OR logical operator use brackets (). Example:
"**(Doctor professor) sciences (technical engineering)**"

Select desired maximum distance between found words by slider

in the search

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bar . Standard value is 10. Select less if you want found words to be closer, or more, if you want found words to be wider.

More details about database search see in the Database search section.

You can navigate through the found pages and documents using buttons (see Found Results Bar), up/down arrow keys (for changing found pages) or PgUp/PgDown (for changing document pages). You can also use Navigation window to select desired found page or found document.

You can also change the format of the page text. To do this use toolbar in the page viewer window.

More details about viewing found information see in the Displaying search results section.

Next action is to use the found information.

3.4 Using found information

When you found desired information you can copy text to the clipboard. Just select text in the page viewer window with the mouse and press right mouse button and select "**Copy**" or press Ctrl+C or Ctrl+Ins. Now you can paste this text in any text editor such as Microsoft Word.

If you want to print found document or to read it in the native viewer press "**Document**" button on the toolbar. See Opening document in the native viewer section.

If you want to save the list of all found documents or to copy all found documents to the specified folder use Saving search results function.

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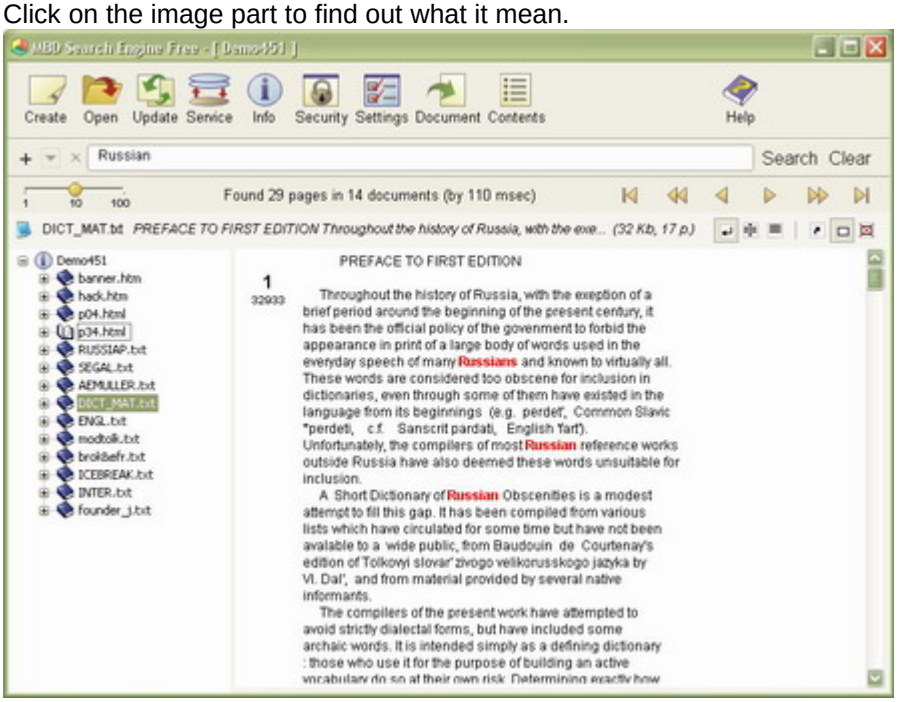
Part IV

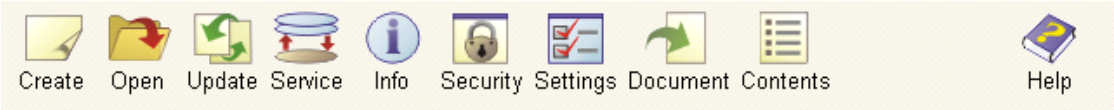
4 Interface

Main program window contains the toolbar, search bar, found results bar, navigation window and page viewer window.

Click on the image part to find out what it mean.



4.1 Toolbar



Toolbar is used to manage all program functions.

- Create – starts new database creation. Start working with MBD SE from pressing “Create”. (See Creating database).
- Open – opens one of created database. (See Opening database).
- Update – re-creates all open database files. (See Updating database).
- Service – Database service functions (See. Service)
- Info – shows open database info. (See Database info).
- Security – Database protection functions (See Database protection)
- Settings – calls program settings dialog. (See Settings).
- Document – loads document in corresponding viewer. (See Displaying search results).
- Contents – shows database contents (See. DB Contents)
- Help – shows help on program.

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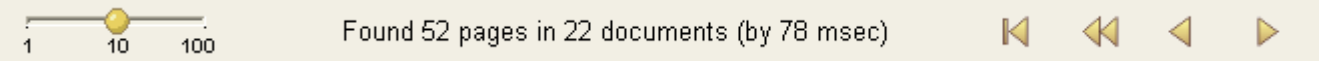
4.2 Search Bar

Under the Toolbar is the Search bar.

- **Clear** button clears all search results and request string.
- **Search** button performs search using request string (See Database search).
- Long white window is used to enter search request.
- Other buttons is used for search results storing

4.3 Found Results Bar

Below the Search Bar is the Found Results Bar.



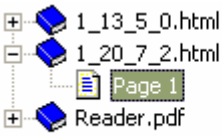
Found results bar displays the number of the found pages and the number of the found documents. There are navigation buttons placed at the right side of the bar. They are (from the left to the right):

- Go to first found page
- Go to last found page in the previous found document
- Go to previous found page
- Go to next found page
- Go to first found page in the next found document
- Go to last found page

On the left side of the Found Results Bar is the words distance slider. It is used to limit distance between searched words (See Search request).

4.4 Navigation window

At the left side of program window is the navigation window containing found documents and found pages list.
Clicking on the found page immediately shows it in the page viewer.
For more details see Displaying search results.



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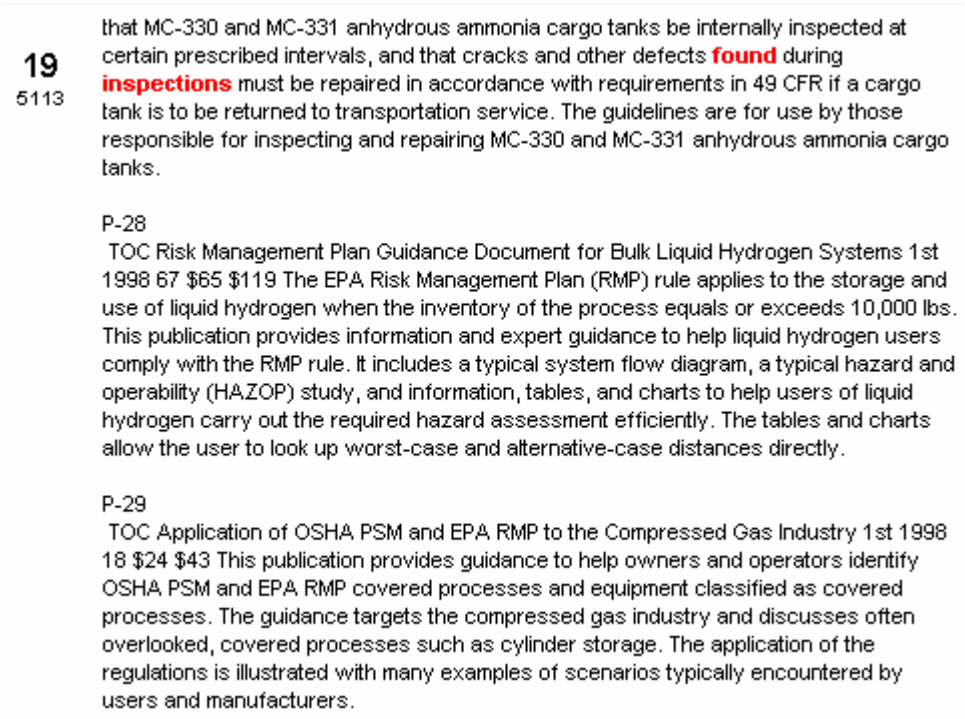
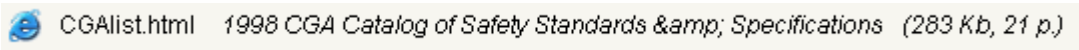
4.5 Page viewer window

The most part of the program window is used for the page viewer window. Page viewer window contains page text form the database in the specified format with the found words marked with the color. And the left side the number of the current page both absolute (small) and relative to the document is displayed.


19
5113
that MC-330 and MC-331 anhydrous ammonia cargo tanks be internally inspected at certain prescribed intervals, and that cracks and other defects found during inspections must be repaired in accordance with requirements in 49 CFR if a cargo tank is to be returned to transportation service. The guidelines are for use by those responsible for inspecting and repairing MC-330 and MC-331 anhydrous ammonia cargo tanks.
P-28
TOC Risk Management Plan Guidance Document for Bulk Liquid Hydrogen Systems 1st 1998 67 $65 $119 The EPA Risk Management Plan (RMP) rule applies to the storage and use of liquid hydrogen when the inventory of the process equals or exceeds 10,000 lbs. This publication provides information and expert guidance to help liquid hydrogen users comply with the RMP rule. It includes a typical system flow diagram, a typical hazard and operability (HAZOP) study, and information, tables, and charts to help users of liquid hydrogen carry out the required hazard assessment efficiently. The tables and charts allow the user to look up worst-case and alternative-case distances directly.
P-29
TOC Application of OSHA PSM and EPA RMP to the Compressed Gas Industry 1st 1998 18 $24 $43 This publication provides guidance to help owners and operators identify OSHA PSM and EPA RMP covered processes and equipment classified as covered processes. The guidance targets the compressed gas industry and discusses often overlooked, covered processes such as cylinder storage. The application of the regulations is illustrated with many examples of scenarios typically encountered by users and manufacturers.



At the top of the viewer window is the brief information about current document including name, file size and extracted text size (in pages).

The small bar on the top right of the page viewer's window helps to select text format (with carriage return, changing carriage return by '|', without carriage return, change pictures by links, show pictures and don't show pictures). You can also change behavior of the viewer in program settings (see. Settings).

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Part V

5 Working with databases

MBD Search Engine works with databases of native (MBD) format containing text and pictures. The Database in the combination with MBD Search Engine is the information retrieval system that help you to find needed information in a fraction of a second. You can create database by your own files or corporative document storage or get databases from the information vendor.

Thus work with MBD SE begins from the database creation.

5.1 Creating database

Working with MBD SE begins from database creation. Files from specified by user paths including subfolders are used to create database.

Notice! *To create database you must have at least two times more free hard disk space then the source text size.*

Database creation process is monitored in the creator window. Process is divided into four parts: looking for files, writing to database, creating index and inflating index.
Looking for files
During this stage program is looking for the files of known formats in specified folders and its subfolders. Whole size of documents is calculated.
Writing to database
Then program extracts information from the found files and writes it to the created database .mbd file.
Index creation and index inflating
Index is created during last two creation stages. Index creation speed is about 50 Mb of text per minute or 3 Gb/hour. Index files have .ss extension.

To create database, press “**Create**” button on the toolbar. Enter new unique database name in the dialog appeared. Database name can consist of letters (case does not matter), digits, underline, space and dash symbol. For example, type «My Database». Database file will be automatically placed in subdirectory with the database name.
Push "**Next >**" button.

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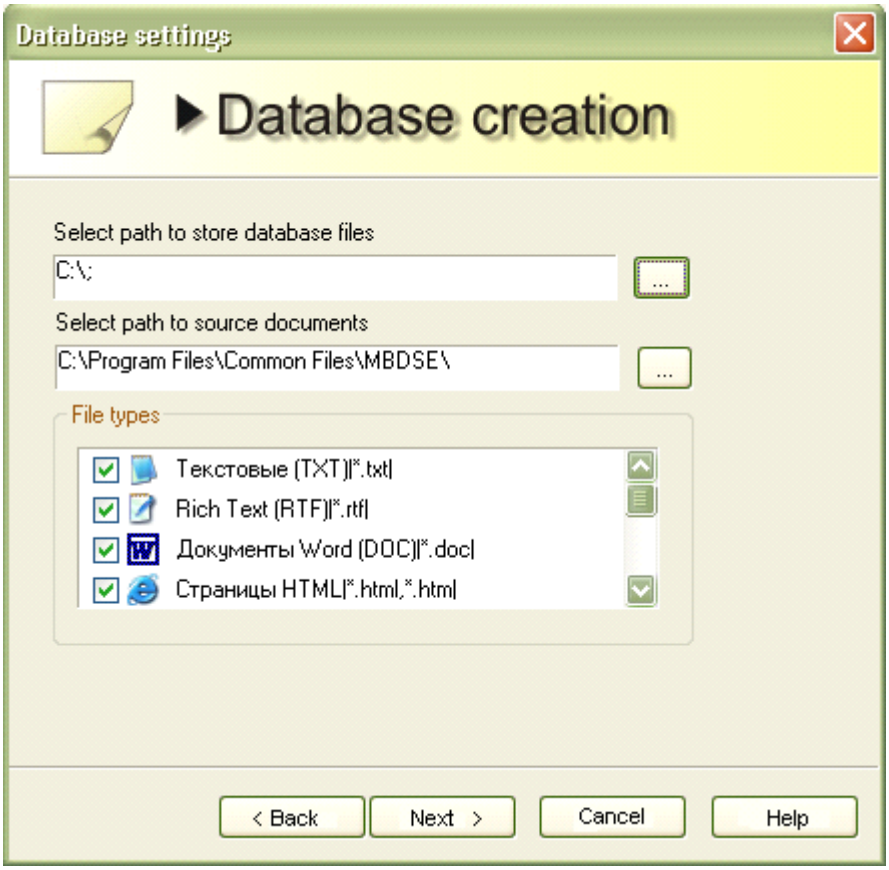

In the next dialog "**Database settings**" select path for document files by browser ("…" button) or type manually. Select desired file formats in the list of supported ones and press "**Next>**".

In the next window "**Additional Setting**" you can define additional parameters:
Save source documents in database – lets you to place all source documents in the database file. This makes it easier to distribute database with source documents or to protect source documents.
Process pictures – makes database with pictures extracted from document that can be shown in the MBD SE text viewer.
Protect database – you can protect database with the password and PC key. See Database protection.

Press **«Finish»** to start creating database.

Program window will be minimized to tray with appropriate message (see picture) and creator window will appear on the screen. During creating you aren't allowed to do anything with program except canceling process. However use cancel button only in emergency because it will destroy the database. Also try not to use memory consuming programs (such as 3D Studio Max, Corel Draw, Adobe Photoshop) during database creation process.

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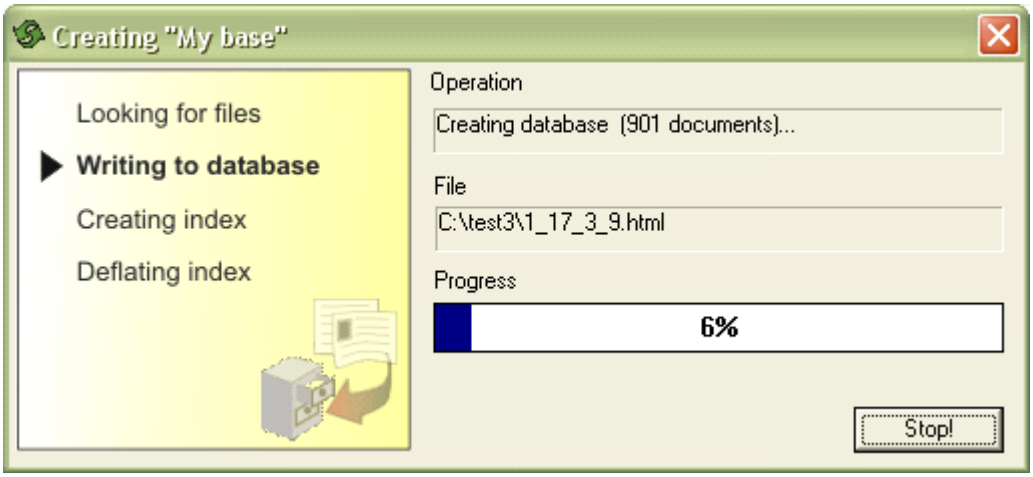

Creation time depends on database size and contents, hard disk and CPU speed. For example, on Pentium™ 4 2500 MHz with 512 Mb of RAM database of 10 Gb was created with 3 Gb per hour speed. For more powerful PC it can be 4 Gb per hour or more.
After creating is finished program window will restore its size and information about created database will be shown. (See Database info).

5.2 Opening database

You can open created database to search over its contents. To do this press “Open” button on the toolbar. Select database from the list appeared and click by left mouse button. You can also select several databases by using Ctrl or Shift key.

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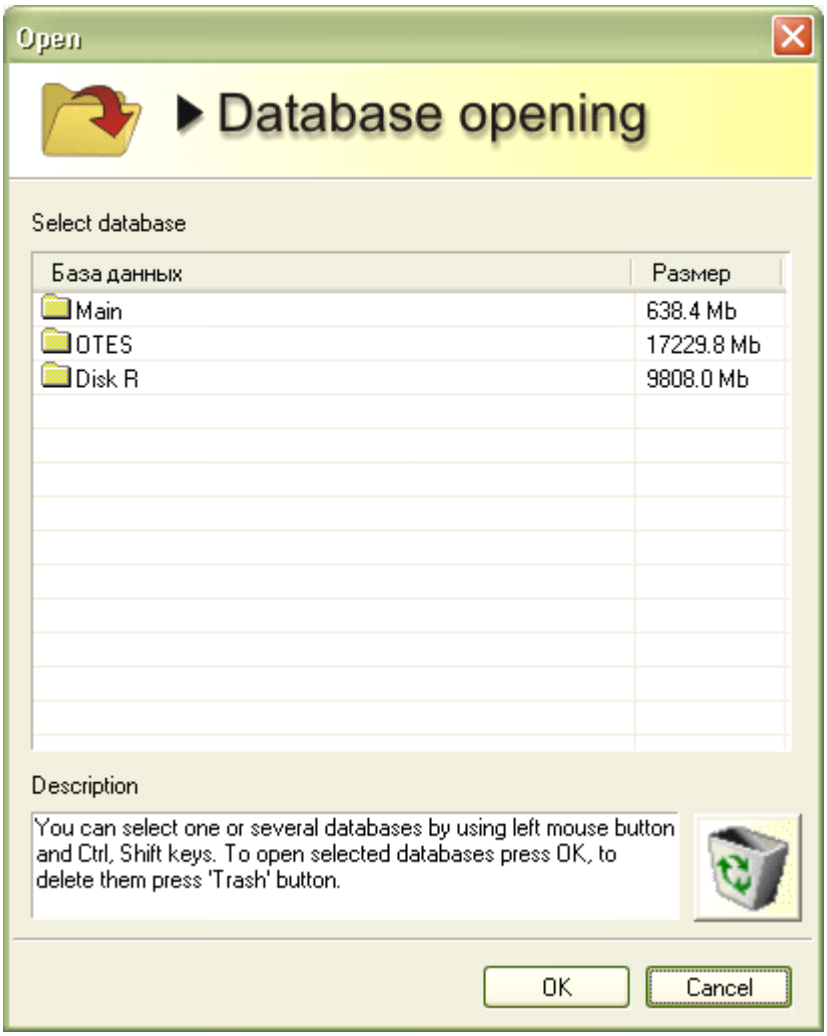

5.3 Updating database

If you had changed source documents included in the database or added new ones you have to update the database. It can only be done by full database re-creating. To do this open database required to be updated and press “Update” button on the toolbar. Database will be first destroyed and then created again. (See Creating database).

However, if you added new documents only you can also update database without re-creation. This function is available at version 2.0 and later. To do this press "Update" button holding Shift key. It makes sense to use this function only if the size of the old database is much bigger then the size of new documents. In this case you can save much time.

5.4 Deleting database

To delete database select “Open” button on the toolbar. Then select database(s) you want to delete and press the bin button.

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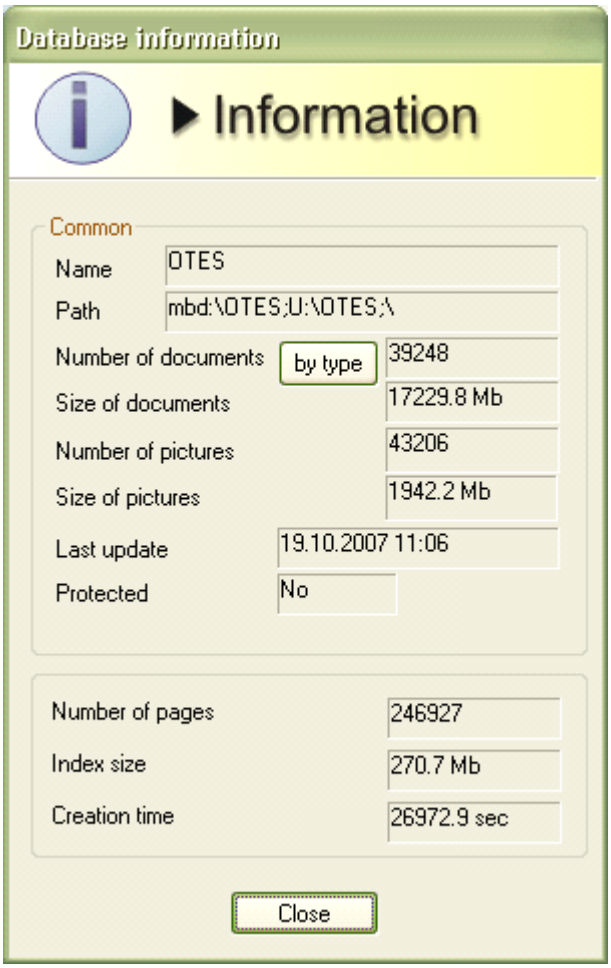
5.5 Database info

To view information about open database select “Info” button on the toolbar. Database information window containing database name, creation date, number of documents and pages in database, time of creating and etc. will appear. When mouse cursor clicks on the “by type” button the number of documents of each type is shown.



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Part VI

6 Database search

To perform search over the open database type text request in the search bar. Text request must be made according to search request rules, described in the Search Request section.

Select desired maximum distance between found words by the slider in the search bar. Standard value is 10. Select less if you want found words to be closer, or more, if you want found words to be father from each other.

Finally select "**Search**" button on the toolbar. If you obtain too many found documents type more concrete request or select smaller distance (less then 10). If the output is too small – select larger distance (10 or more).

There are several additional type of searching available.

6.1 Search request

Search request is the set of words you want to be found in text. Words are combined with the logical operators. Simply enumerated through space words are treated as being combined with “AND” logical operator. Only those pages will be found which contain all enumerated words. Words in the round brackets are treated as begin combined with “OR” logical operator. Those pages will be found which contain at least one of the mentioned words.
For example,
1. “Doctor Professor” will find all pages contained both doctor and professor.
2. “(Doctor professor) sciences (technical engineering)” will find either doctor or processor of technical or engineering sciences.

To search by complex nested requests, for example, “(doctor OR (candidate AND rich)) AND live AND Moscow” (that means a man who lives in Moscow and is a doctor or rich candidate) use Saving search request.

You can also use Extended search request.

6.2 Displaying search results

Search results are displayed in several places:
- In the results bar the number of found pages and documents displayed. Document is considered as found if it contains at least one found page. You can use result bar buttons to navigate through the found pages and documents. You can also use keyboard arrows keys to select previous or next found page.
- Navigation window contains tree of first found pages (not more that 50) in no more than 20 documents. Selecting node with documents or page result in changing current documents or page in the viewer. Click “next” node to fill tree with next portion of found pages.
- Viewer window displays current pages text or current document. To view one of the found pages use the navigation window or results bar. To view any page in database simply drag viewer contents up or down with the left mouse button. You can also use mouse tracker or “PgUP” and “PgDown” keys to speed up leafing.
- Viewer window caption contains information about current document.

You can copy text from the viewer window. Just select text with the mouse and press right mouse

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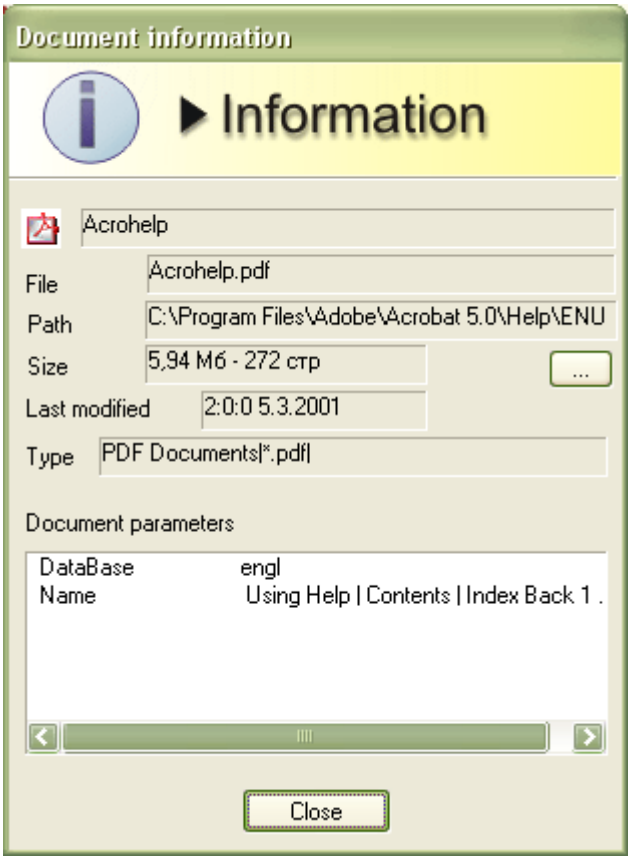
button and select "**Copy**" or press Ctrl+C or Ctrl+Ins.

6.2.1 Found document properties

In the caption of the page viewer window brief information about found document is displayed. To view more information press document type icon on the left side of the caption.



6.3 Opening document in the native viewer

If you want to view current document in its native viewer (such as Microsoft Word for doc – file or default browser for html file) select “**Document**” button on the toolbar.
To change default native viewer for any type of document run Window Explorer (explorer.exe) select “Service” / “Folder Properties” and choose “**File types**” tab.

If the document was extracted from an archive program will automatically extract it from this archive and opens a copy in the native viewer.

6.4 Saving search request

Sometimes when working with complex requests it is convenient to save request. Each database has its own saved request.

- To save request having been searched use + button on the search bar. You can save up to 26 requests for each database. Each saved request has its indication symbol – a letter from A to Z.

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- To view saved results use button. In a window appeared is a table containing indicating letters, words and number of found (if any) of request. **Saved request remains actual only during working with the database it was used for**. After database or program is closed the request becomes non-actual. It is indicated by no-found pages in its properties. Using this request result in no-found. To refresh (actualize) the request select it in (by clicking) the window with the request table. Saved request can contain link to another request in a form of #A, #B and etc. (see next point). In this case it is necessary to refresh all referenced requests before.
- To use saved request in a search request simply type #-symbol and the letter indicating needed request. For example, #A, #B and etc.
- To delete one of the saved request click with right mouse button on its name in the requests window. In the menu appeared select “**Delete**” item. You can also place the text of request into the search window from this menu.
- To delete all saved requests press - button.

6.5 Extended search request

The search request can be extended with the additional text **tags**. Tags begin from the double # symbol and are separated from the words by spaces (single # symbol is used for restoring saved search request).

Tags:
##p - search for any pictures. Combining this tag with some words will find pictures near specified words. Example: "##p microscope" will probably find pictures of microscope.

##dNNN - set the search distance between words instead of the slider. NNN - the distance (1..255) in decimal. The set distance is valid for all words following this tag. Several **##d** tags can be used in the search request. The words preceding the first **##d** tag are combined with the distance set by the slider. This tag can be used in following situations:
1) you find words with the different distance. For example, you what to find about measuring method of some Evans's laboratory. Obviously, the distance between "measuring method" and "Evans's laboratory" can be larger than distance between "measuring" and "method". In this case we can use "measuring ##d1 method ##d100 Evans laboratory"[1] request.
2) you want to save the distance when saving search request.

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6.6 Extended database search

The are some extended database search functions available. To select extended search function press small down arrow button near the "**Search**" button and select desired function.

Find anywhere - find in field names and values and in the text.
Find in text only - find in text only (not in filenames, titles and e.t.c.)

Find in found documents - find in the documents found in the previous search.
Find with words order - take into account the order of the words in the search request.
Find pictures - find pictures by near text.
Find by fields - set the filter on the field values.

6.7 Search by fields function

Find by fields function is the function for advanced MBD Search Engine user. Each document of the database has its own properties. The name of the property called "field". This functions allows to perform conditional search with the condition on the field values.

When **Find by fields** function is selected the **Filtered search** window appears. You can specify condition on the text value of each field.
The condition is the same search request as for the text search. Using of extended search request is not allowed.

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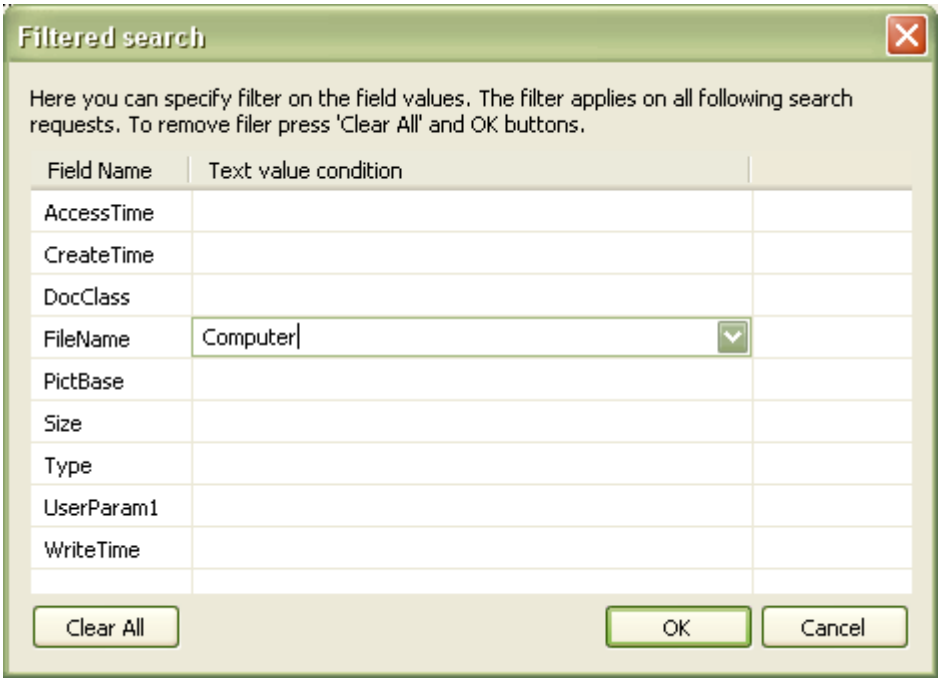

Most of the fields are internal use only. Here is the description of most significant fields:
FileName - full file name of the document.
Type - the type of the file, decimal number (**65795** for TXT, **65794** for RTF, **65793** for DOC, **66049** for HTML, **67073** for PDF)

Specified filter applies on all following search requests. For example, if you specify "Computer" condition on FileName field and "(65795 65793)" condition on Type field all subsequent search is performed by TXT and DOC documents that have Computer word anywhere in they filenames (folder or filename itself).

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Part VII

7 Service

Service includes some additional functions: databases merging, database import, database export (in the MBD native format), saving found results in the text form.

7.1 Merging databases

Merging databases function can merge two databases into one. Merging time is essentially less then creating time. Furthermore, its is much less free hard disk space required to merge databases then to create it. Merging databases function can be accessed only after program activation!
To merge database click **Service** button on the toolbar. Select "**Merge databases**" tab in a window appeared.

Select names of databases – sources and the name of target database. The target database may be both existing and new one. Anyway previous data of target database will be destroyed. Also, by default, source databases will be destroyed. You can turn this option off by turning off corresponding check box at the bottom of the window. At the bottom of the window is a string with free and required for this operation disk space.

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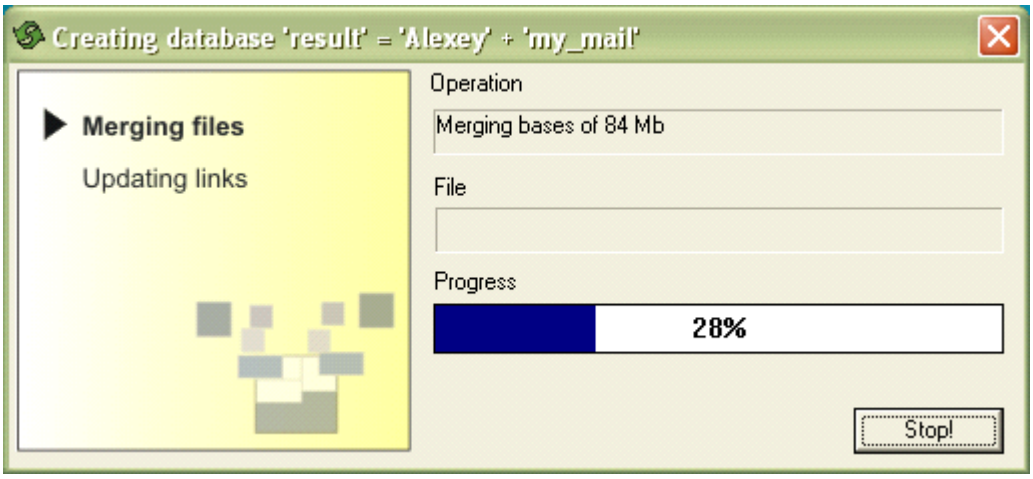
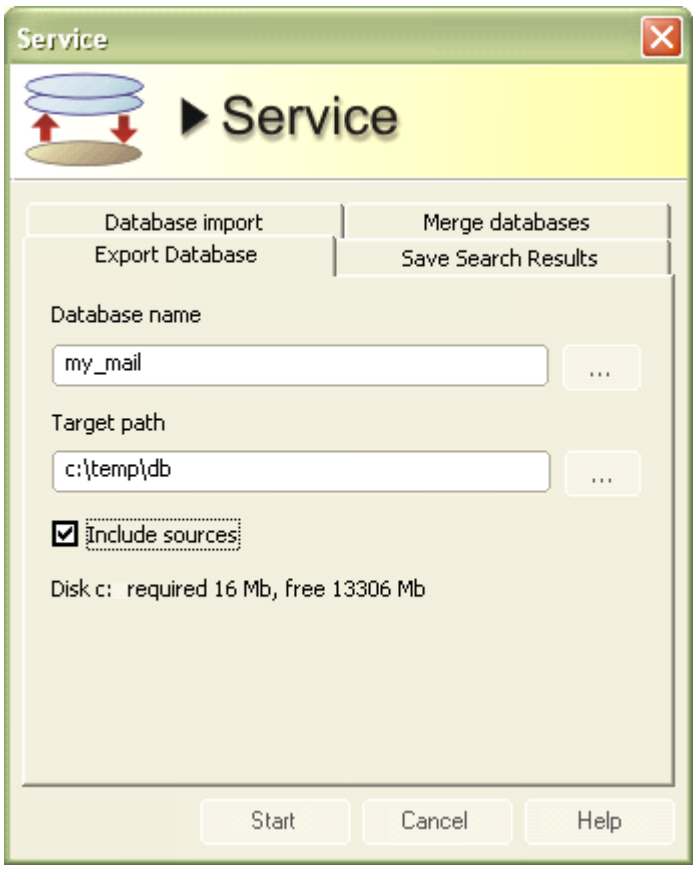


Press "**Start**" button to start merging. Progress window will appear on the screen and program window will become hidden.
After program finished merging the result database info will be displayed.

7.2 Export database

In order to transfer database to another computer use export function. Database is exported in native mbd format.



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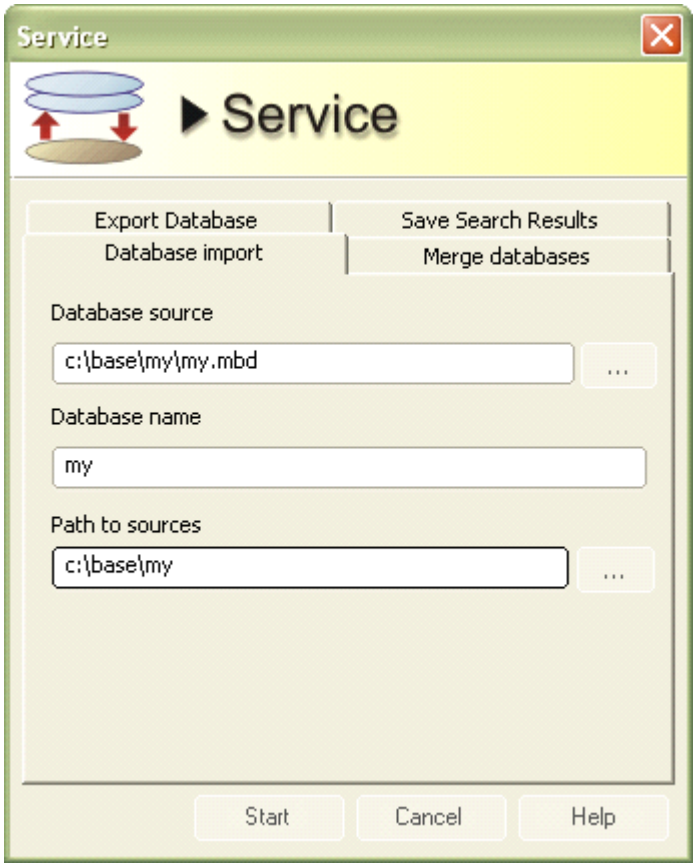
To export database press **Service** button on the toolbar and select **Export** tab in the window appeared. Select database and path to export. You can also select “**Include sources**” option to export source documents additionally.
At the bottom of the window is a string with required and available disk space.
Press "**Start**" to start exporting. Exported files can be transferred to another computer.

7.3 Import database

In order to import exported database, use import database function. Per se, database import is adding database into program list of databases (and pointing to real sources). To import database press **Service** button on the toolbar and select “**Import**” tab.
Enter full path to the database .mbd file (it is supposed that other files are placed in this folder too) and database name (preferably using default name). If you exported database with source files, enter path to the source files and program adjusts links in the database. (Otherwise you can’ t load source document in native viewer).



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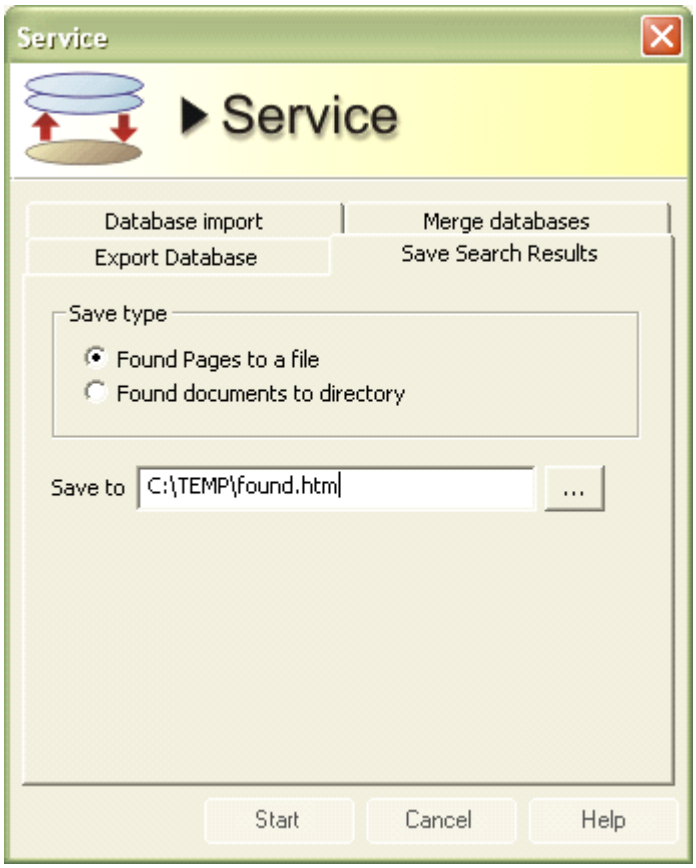
7.4 Saving search results

To save search results press "**Service"** button on the toolbar and select “**Save search results**” tab.
Select save type:

- “**Found pages to a file**” saves a text of found pages into txt or html file. So you can point to both htm and txt file (preferably saving into html format).
- “**Found documents to directory**” copies source found documents to the directory.



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Part VIII

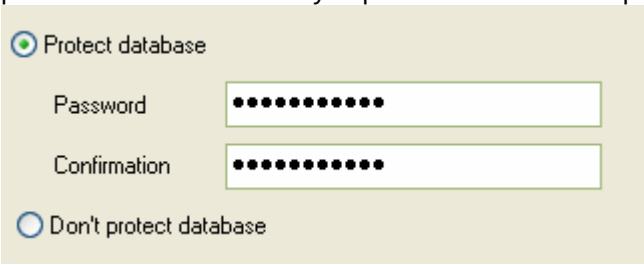
8 Database protection

MBD SE works with two types of databases: protected and not protected (free). Free databases can be easily distributed and read among other users. To avoid such redistribution you can protect your database with password and PC key. Such databases can be also easily distributed but they can't be properly read on the other computer without special electron key. Thus you can, first, protect database from illegal copying and, second, manage distribution of the database if you are publisher.

Electron key for protected database is stored in the key-file in the database directory. It contains all necessary information about database decoding. Electron key is unique for each PC and is generated on the publisher computer using data about 1) publisher PC configuration, 2) user PC configuration and 3) publisher password. If the key is absent or corrupted the database text pages are displayed in meaningless set of letters and digits.

8.1 Creating new protected database

In database creation dialog (see Creating database) you can select database protection mode and specify the password. Database will be created then with protection by using PC key (got automatically) and specified password. If you enter empty password database will not be protected and can be freely copied on the other computers.



8.1.1 Setting protection to the created database

You can also protect already created database. To do this open the database, push **Security** toolbar button and select **Protect Database** command from Security window. Enter password and confirmation. Database will be protected (process takes one minute for 1Gb database size). After protection automatically generated key file will be place in the database directory. This is the key file for given PC only.

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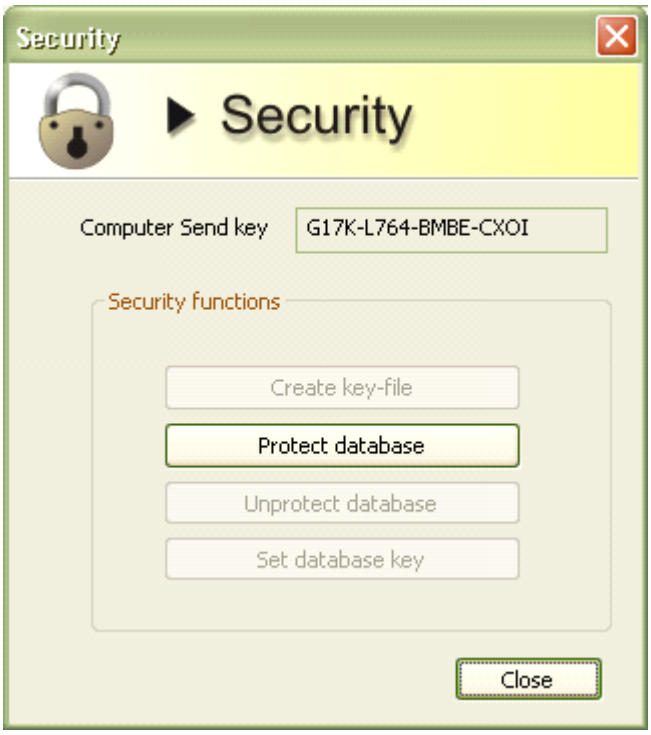

8.1.2 Remove database protection

You can also remove database protection by selecting **Unprotect database** command from Security window (**Security** toolbar button). To remove protection you have to enter password used for database protection. Protection removing process takes about one minute for 1 Gb database.
Attention! *If you specify wrong password or database was protected on the different computer, all database data will be lost during removing protection. Be careful!*

8.2 Distribution of protected databases

(Only for Publisher license)

Protected databases can be easily copied or downloaded from site. All database copies are identical. Also the can be read by any version of MBD SE.

Step 1. Customer

Customer read PC configuration key and send it to Publisher. The key can be read from the Security window ("**Computer send key**"). Also the customer can purchase database at this step if it is paid.

Step 2. Publisher

Publisher checks purchasing and generates key-file using customer's send key. Use "**Create key-file**" function from Security window to generate the key-file. Specify password used for database protection, press "**Make**" and select path to store key-file.
Generated key-file (2 Kb) can be sent to the Customer by e-mail.

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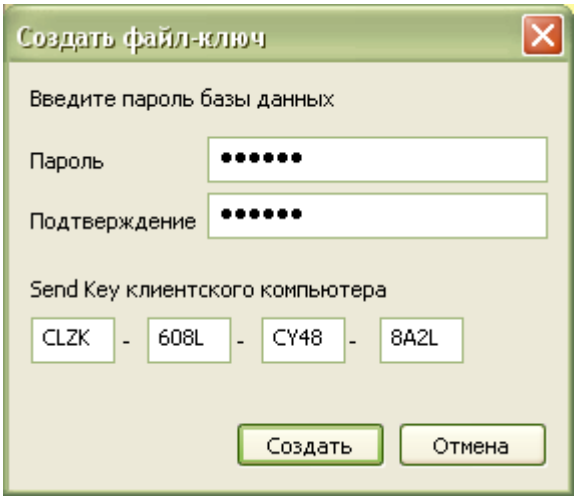

Step 3. Customer

Customer has to install received from the Publisher key-file in order to read database. To do this open database, select **Set database key** function from **Security** window and point to the key-file.

8.3 Saving source documents inside database

A text content of the source documents is mostly saved in the database. However such part of information as text formatting, tables, vector graphics and so on is lost. Therefore in many instances it is important for customer to have possibility of viewing source documents. If source documents are distributed as they are, in their own format as separate files, they can be easily copied and redistributed by any database user. Possibility of unlimited distribution of source documents produces problems in safety of personal document storage and also leads to offence against copyright.

To make it impossible to redistribute source documents you can use Save source documents function implemented in MBD SE. Source documents are stored inside MBD database in coded bytes and can be extracted by MBD SE only for view. To view this documents special utility – **MBD SE Browser** is developed and included in the standard MBD SE distributive.

When saved inside database source documents are placed in .mds file with all hierarchical directory structure, beginning from the drive. To place documents inside database when creating – select “**Save source documents in database**” option in the **Additional Settings** window.

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Additional Settings
Database creation
Press 'Finish' to perform creation, 'Back' to change some settings and 'Cancel' to cancel creation.
Also, some additional settings can be defined here:
Save source documents in database
Process pictures
To avoid illegal database copying and redistribution you can protect it using PC code and password.
Protect database
Password
Confirmation
Don't protect database
< Back
Finish
Cancel
Help

To place documents inside database after creation or to view placed documents use MBD SE Browser built in Windows Explorer. One way is to open database in MBD SE and select Contents button from the toolbar. Another way is to open Windows Explorer (for example, by double click on My Computer icon) and browse for My Computer\MBD SE Browser\<Database name> path. Using **MBD SE Browser** you can:

- Navigate through the source documents structure
- Delete source documents
- Create folders
- Paste additional documents

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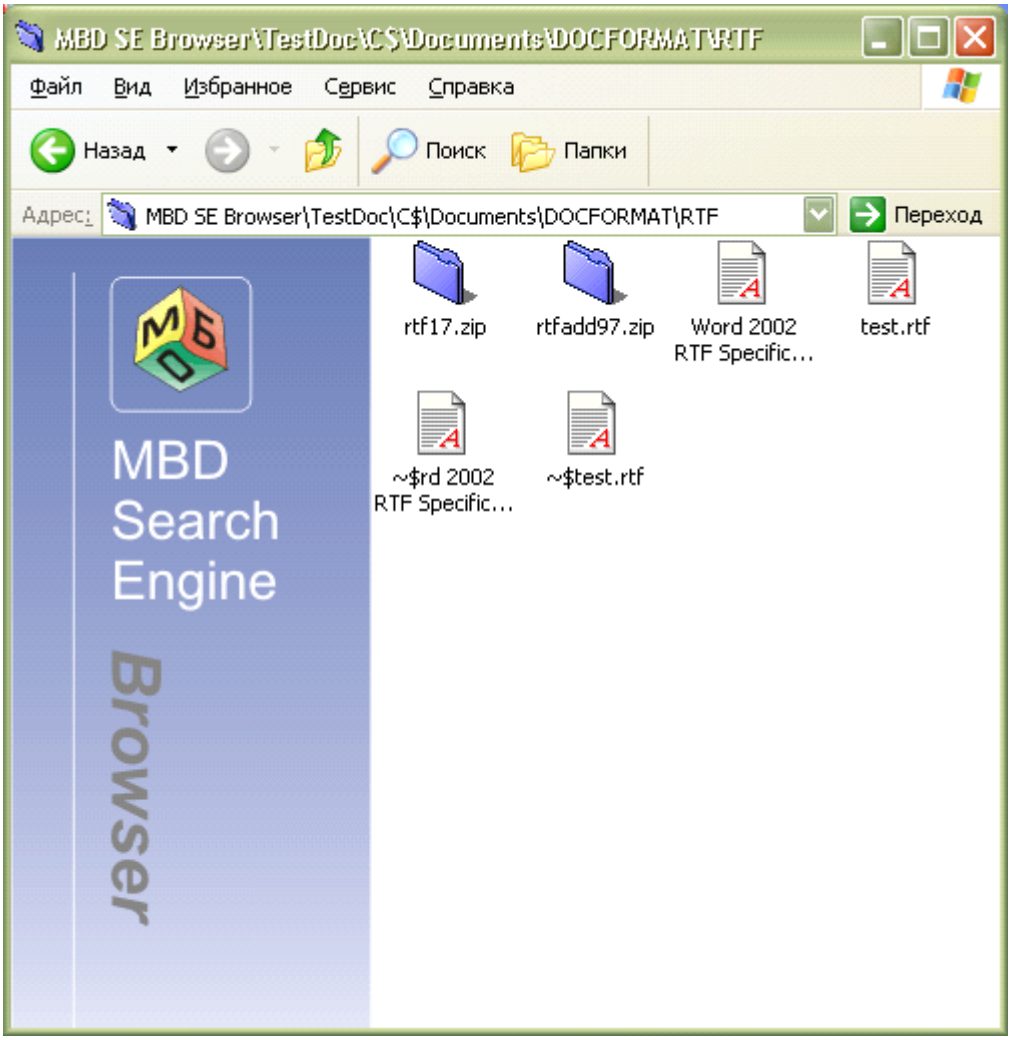

8.4 Source documents protection

Source documents protection is possible when placing documents inside protected database. All possible combinations of source documents and database protection is shown in the following table:

	External documents	Internal documents
Not protected database	Standard regime for the local PC for Free or Standard licenses. No documents and database protection.	Can be used for helping to move source documents with database. No protection provided.
Protected database	To distribute database without source documents.	Most safety regime. To protect distributed database or own documents from illegal copying. Available with Professional and Publisher licenses.

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Part

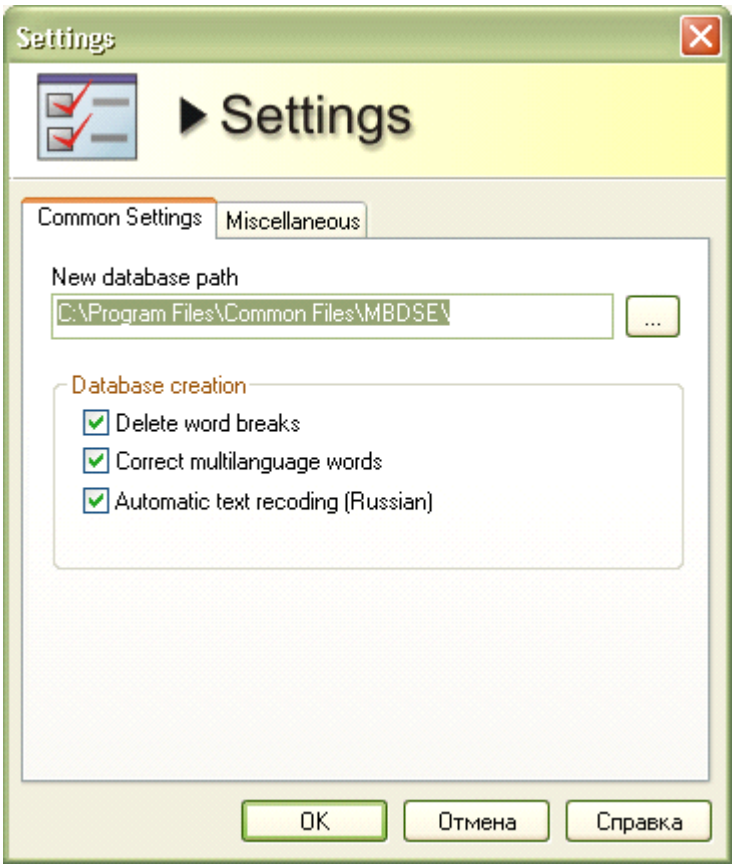
9 Settings

To change program settings select “**Settings**” button on the toolbar. Settings dialog contains two tabs: Common and Miscellaneous.

9.1 Common Settings

In the Common Settings window main program settings can be adjusted.
You can modify:
New Database path – path where to place new database files. Database files will be placed in subdirectories of the directory specified in this windows.
In the **Database creation** group you can choose:

- Delete word breaks – automatically concatenate broken words by division.
- Repair Multilanguage words – automatically change letter of foreign language with the same spelling (for Russian texts).
- Automatically change encoding – automatically determine text encoding and doing following recoding to WIN 1251 (Only for Russian texts).



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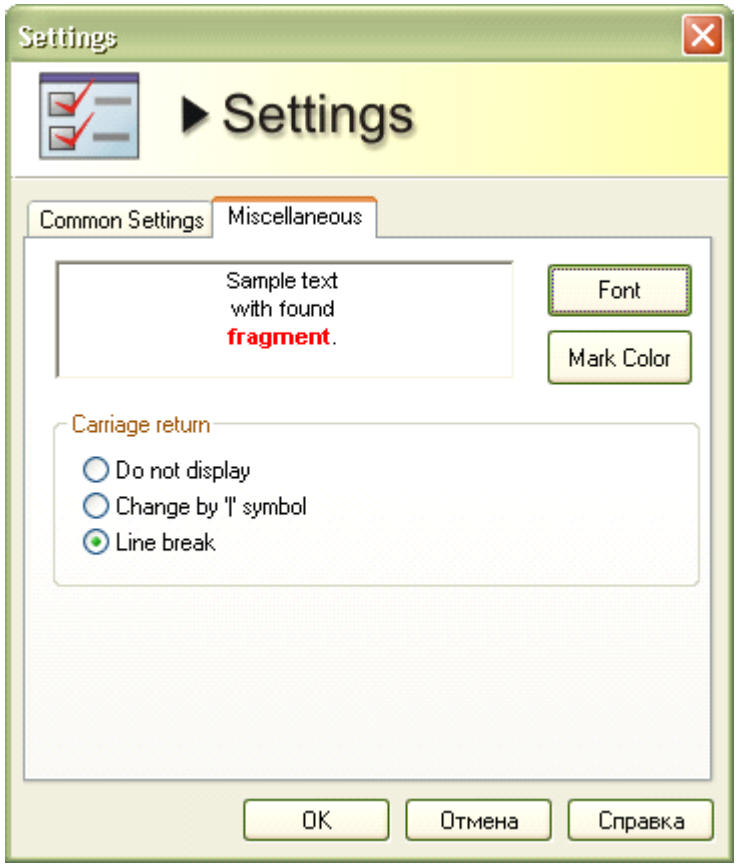
9.2 Miscellaneous

In the Miscellaneous section settings of the viewer window can be adjusted.
You can select font and color of text. You can also choose between three types of carriage return (CR) displaying: without CR, with changed by '|' symbol and with line breaks.



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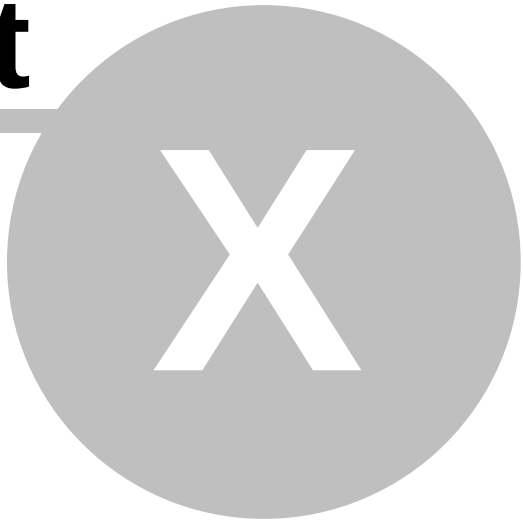
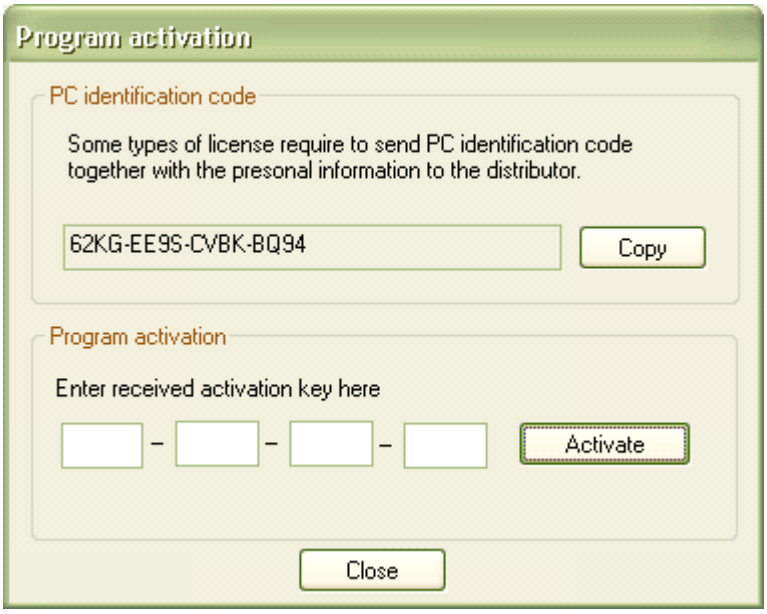
Part



10 Program activation

To make MBD SE having all its capabilities it is necessary to activate it. To do this order commercial license first. You can get commercial license through the vendor or directly through the MBD Soft Company at www.mbd-soft.com. To order the license you have to provide your e-mail address. If it's necessary, you have also to send the send key that you can find in the activation window (select **Help** - **Activation**). Then you will receive the Activation key.



Enter the Activation key in the Program activation section and press **Activate**. The program will become activated.
If you change your computer configuration, in some types of licenses, the program may become deactivated. To determine if the program is activated use help window (**Help** button). If the program becomes deactivated, apply to MBD Soft Company for another key. However you may know that the number of keys is limited for one user (it is specified in the commercial license).

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Part XI

11 Appendix

11.1 Glossary

Database – is the union of files created by program:
Compressed and coded text database (.mbd)
Index file (.ss).
Auxiliary file (.dbp)
and some other auxiliary files

Field - the name of the document property
Found pages – pages complied with search request.
Found document – document contained at least one of the found pages.
Index – is an auxiliary file with information about whole words positions in database.
Page – is the base element of text fragmentation. Page by page text organization (as in book) is comfortable for user and provides fast access to found information. Page size in the current version of program is 2048 compressed symbols that is about 3000 text symbols.
Search request – Search request is the set of words and combination of digits being found, combined with logical operators. Simply enumerated through space words are treated as being combined with “AND” logical operator. Those pages will be found which contain all enumerated words. Words in round brackets are treated as begin combined with “OR” logical operator. Those pages will be found which contain at least one of the mentioned words.

11.2 Common errors during MBD SE using

Before call for help check on the following common errors:
- After installing MBD SE it’s necessary to reboot the computer.
- To install program you can have administrative rights. To run program under user with strongly limited rights (for example, guest) you must do the steps, described in “Installing on computer with multiple users”.
- 'Not enough disk memory to create database...' - to create database you must have at least two times more of free hard disk space then the source text size.
- 'Not enough memory to create database... '- to work with MBD SE you must have at least 256 Mb of RAM (512 Mb is preferred).
- No fields is displayed in the Filter search window - open database created by MBD SE version 2.1 or higher. Re-create database otherwise.

11.3 Support

You can get support from the MBD Soft Company at support@mbd-soft.com or from the site: www.mbd-soft.com/contacts.html.

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Index

- A -

Activation 48
Activation key 48
advantages of MBD SE 6

- B -

bin - button 24
by type - button 25

- C -

COM+ Server 14
Corporative license 8
create database 21
Creation time 21

- D -

database
  creating 21
  delete 24
  export 34
  import 35
  info 25
  merging 33
  name 21
  open 23
  protection 38
  protection removing 39
  protection setting 38
  search 27
  updating 24
delete database 24
document opening 28

- E -

Errors 50

- F -

Features 6
fields 30
filter search 30
Found Results Bar 18
Free License 8
Functions 6

- H -

hardware requirements 8

- I -

Index creation 21
Index inflating 21
Installing 11
Internet Server 8

- L -

Launching 14
License 8
Looking for files 21

- M -

Maximum database size 6
Maximum indexed document size 6
multiple users installation 11

- N -

Navigation window 18

- O -

open database 23
open multiple database 23

- P -

page text 19
Page viewer window 19

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Process pictures 21
Professional License 8
Protect database 21
Publisher license 8

- R -

requirements 8, 9

- S -

Save source documents in database 21
search
by fields 30
database 27
database extended 30
Search Bar 18
search request
- 27
extended 29
saving 28
search results
navigating 27
saving 36
Server 8
settings
common 45
miscellaneous 46
source documents 21
protection 42
saving 40
Standard License 8
Support 50
system requirements 9

- T -

tags in search request 29
text format 19
Toolbar 17

- U -

Uninstalling 11
update database 24
update without re-creation 24

- W -

Writing to database 21

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